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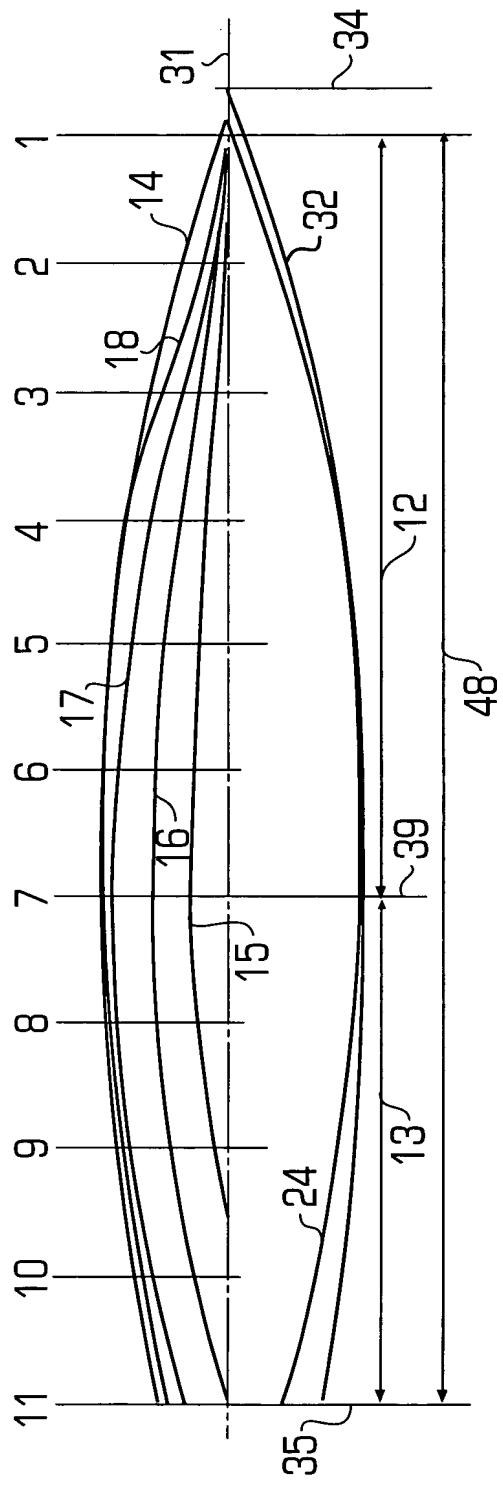


FIG. 1

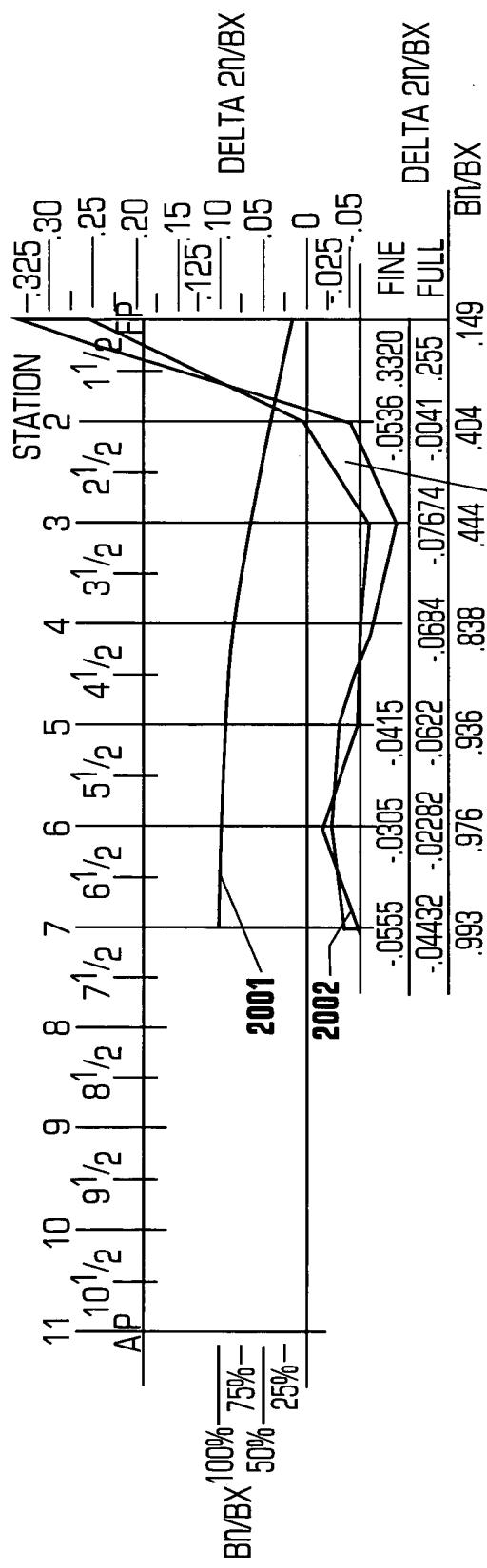


FIG. 2
2003

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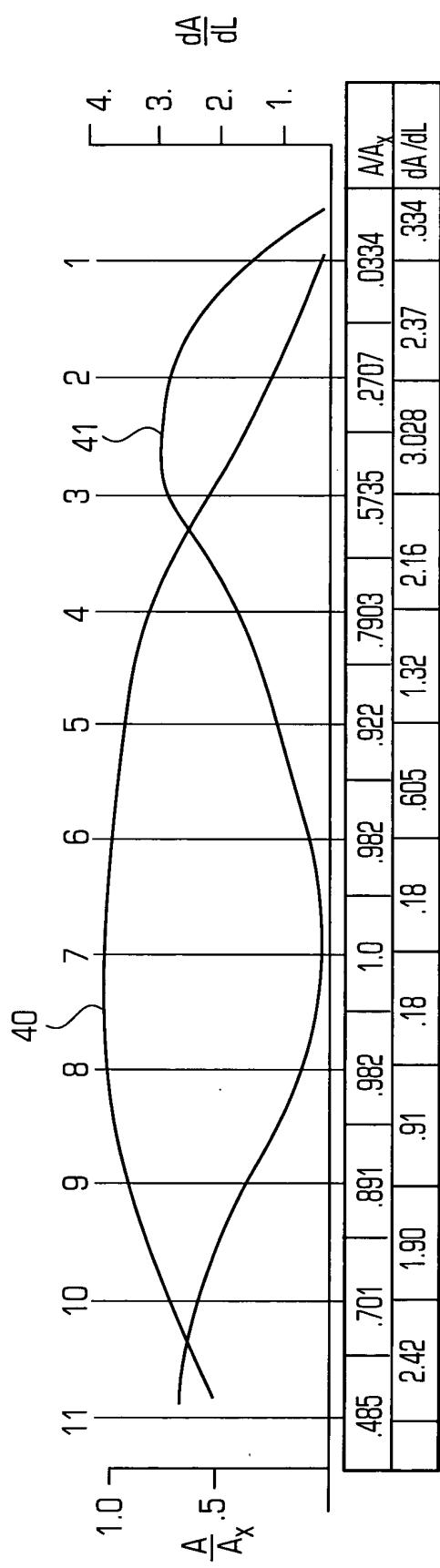


FIG. 3

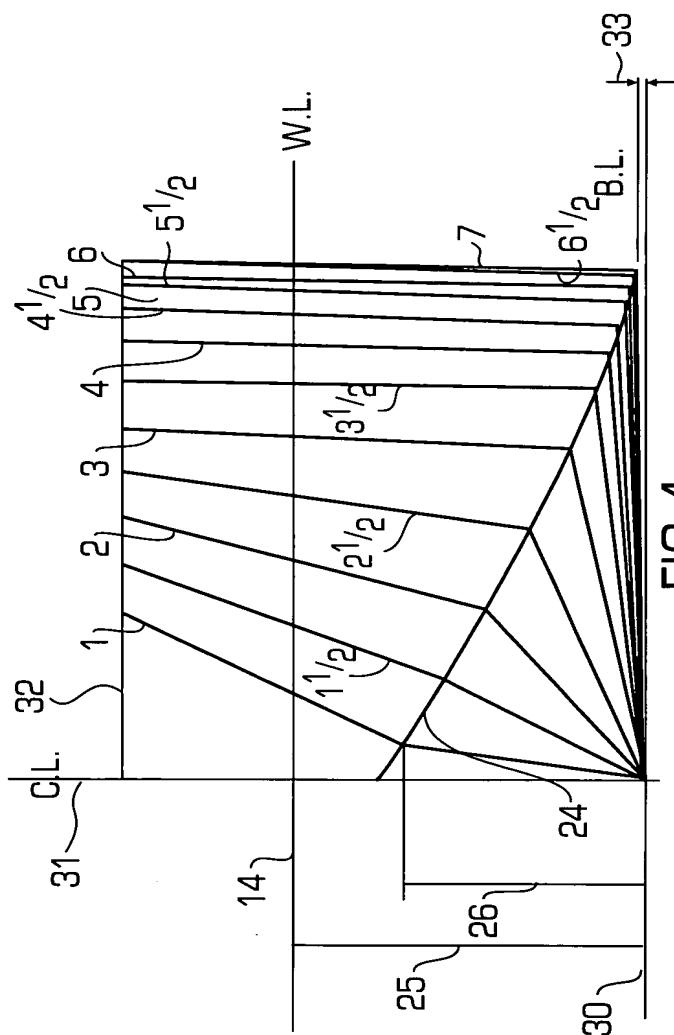


FIG. 4

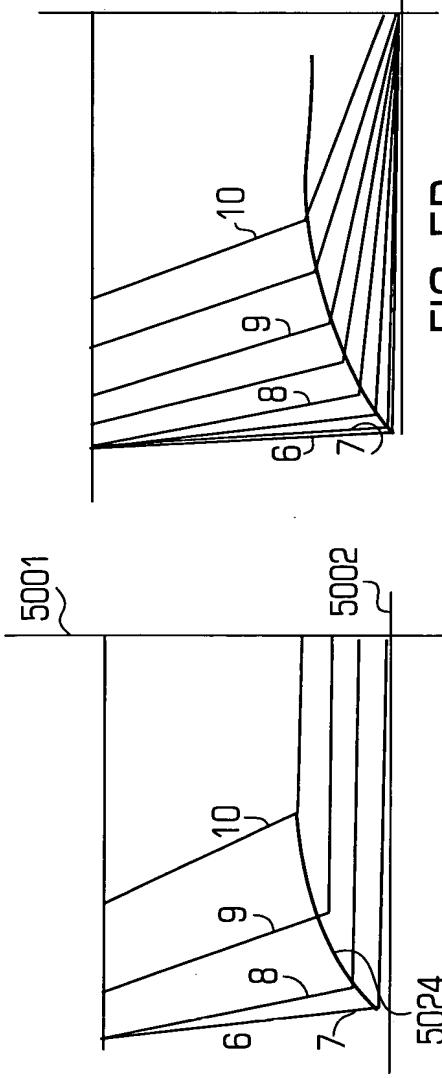


FIG. 5A

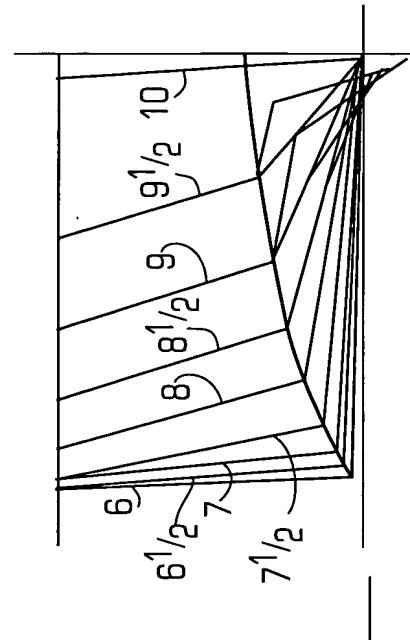
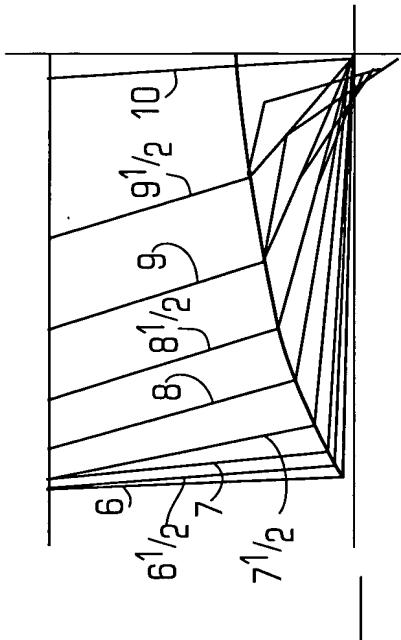


FIG. 5B

FIG. 5C



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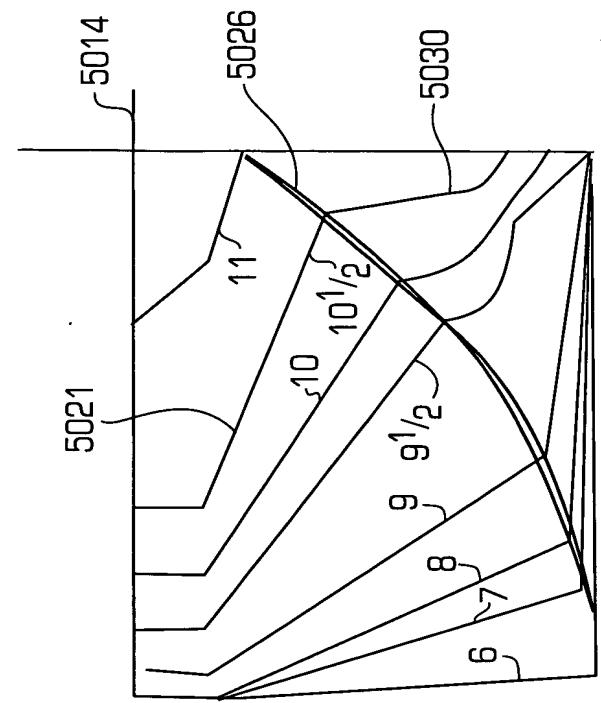
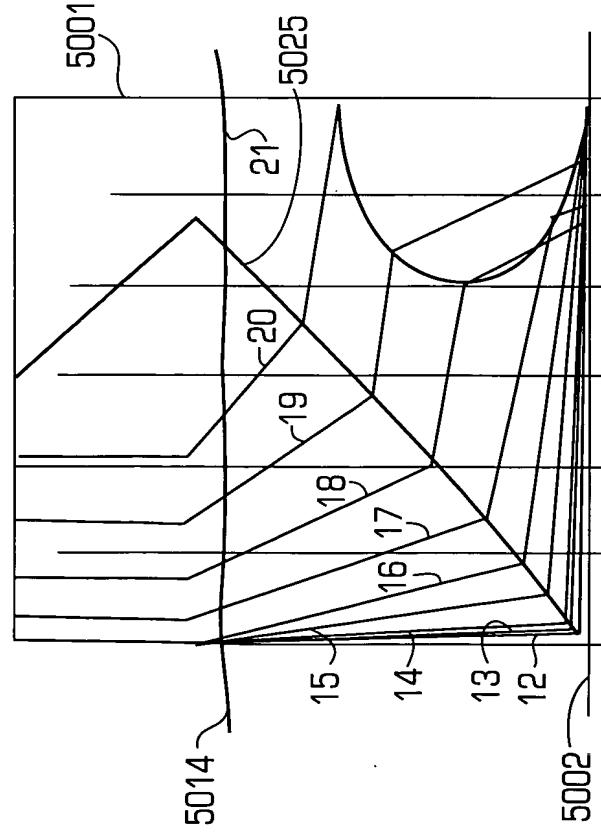


FIG. 5E



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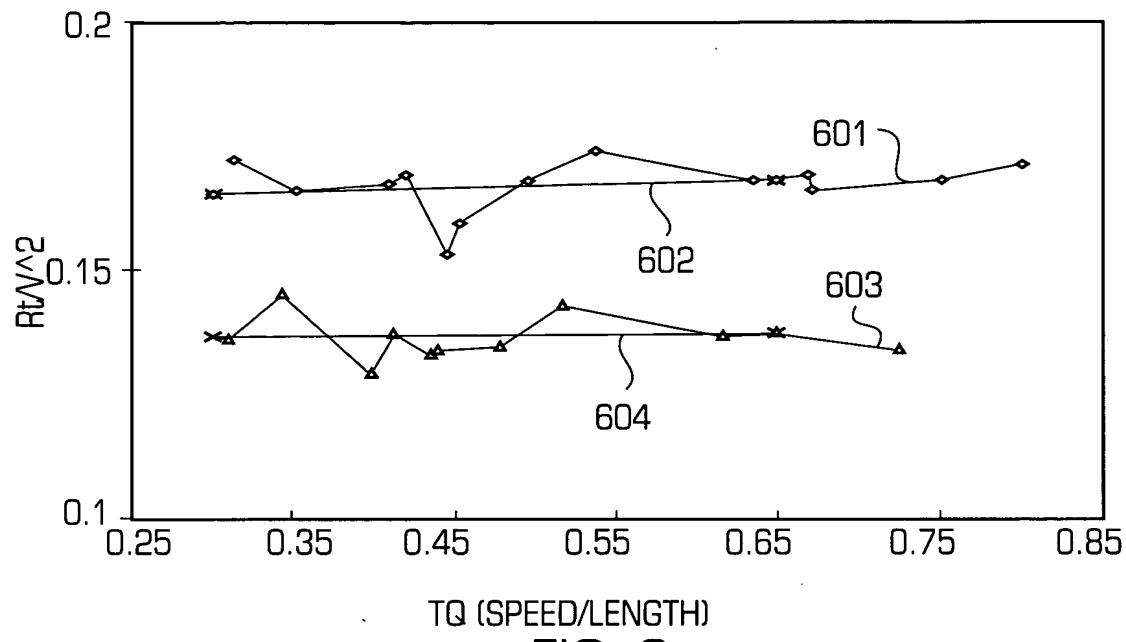


FIG. 6

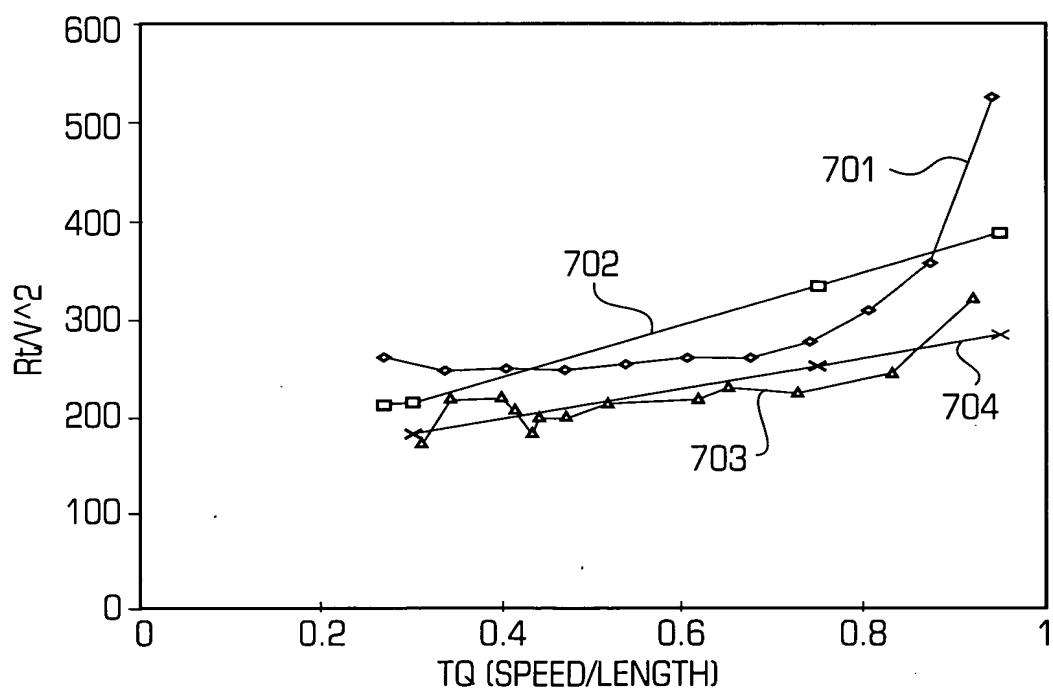


FIG. 7

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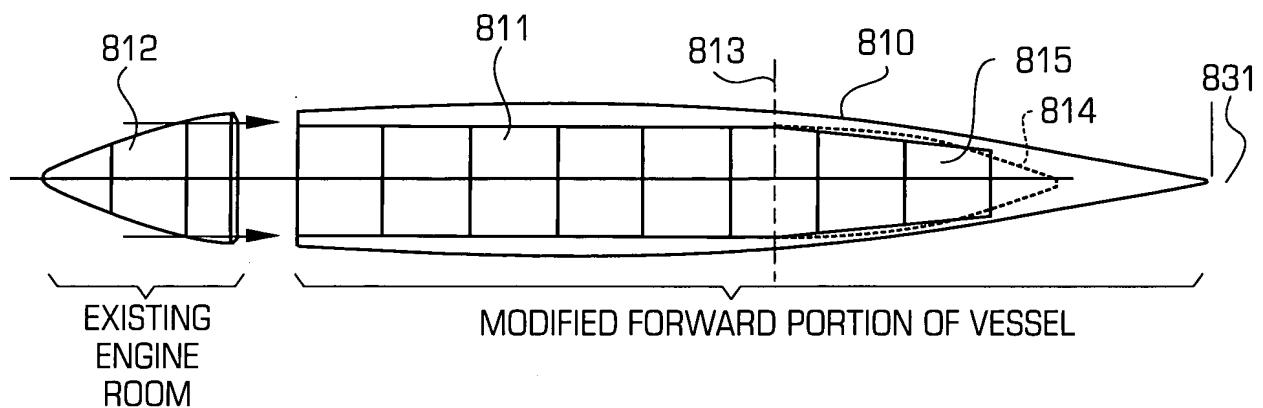


FIG. 8

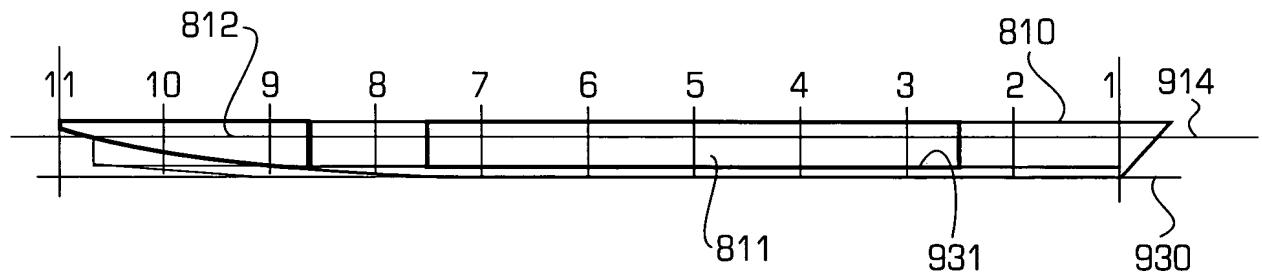


FIG. 9

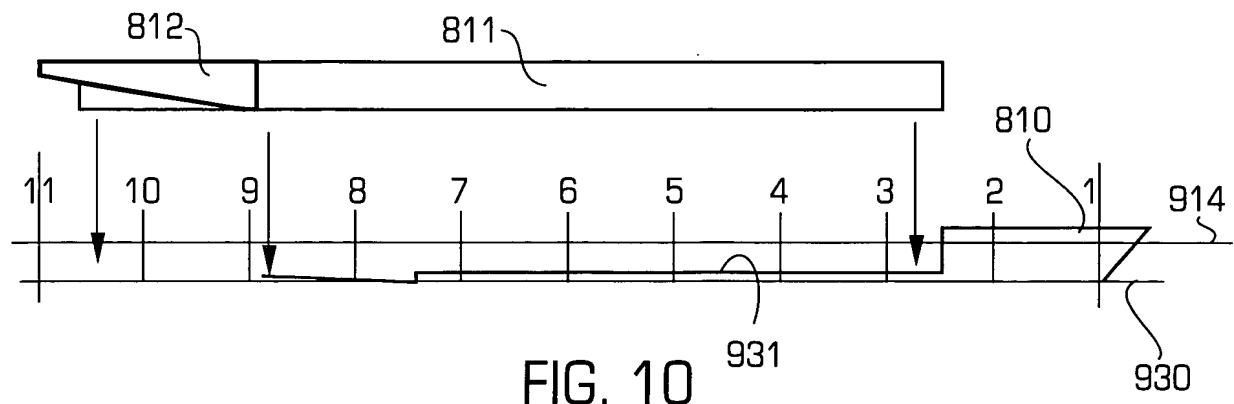


FIG. 10

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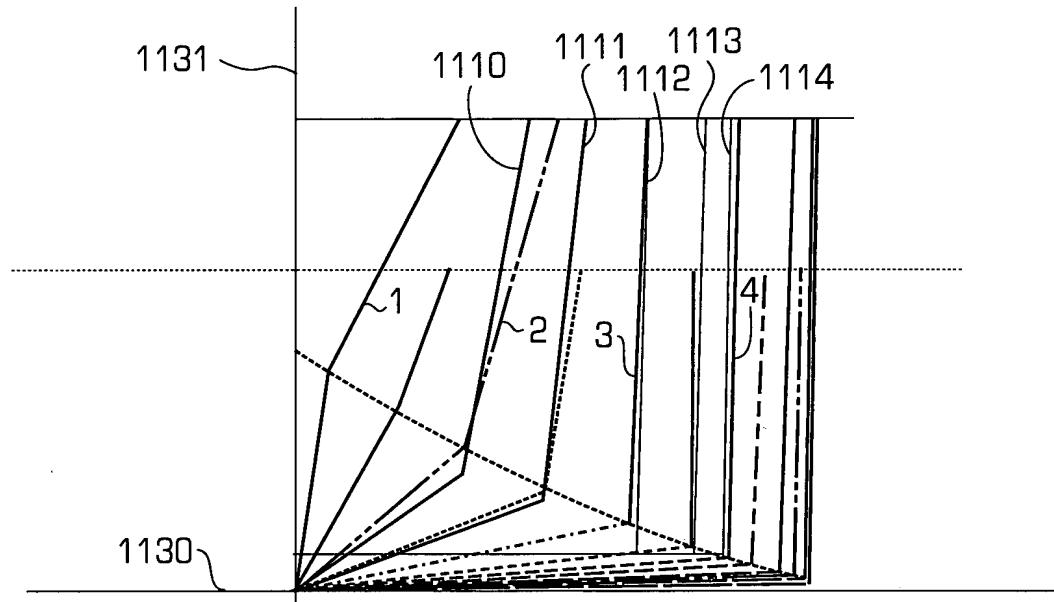


FIG.11

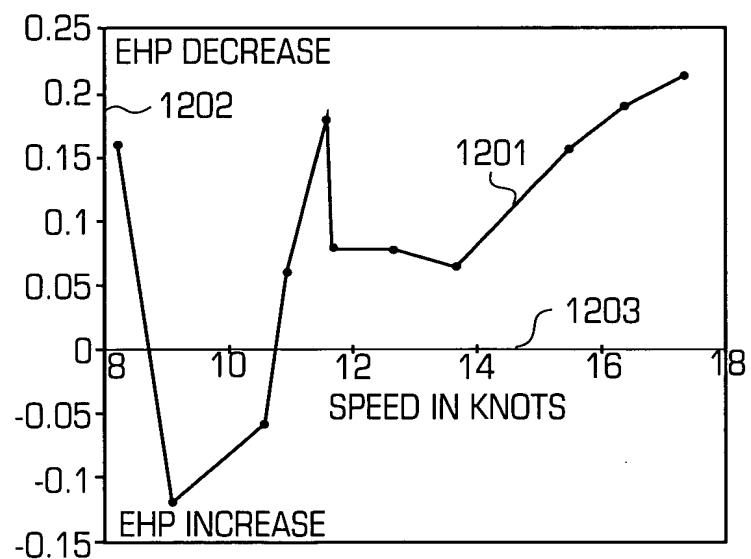


FIG.12

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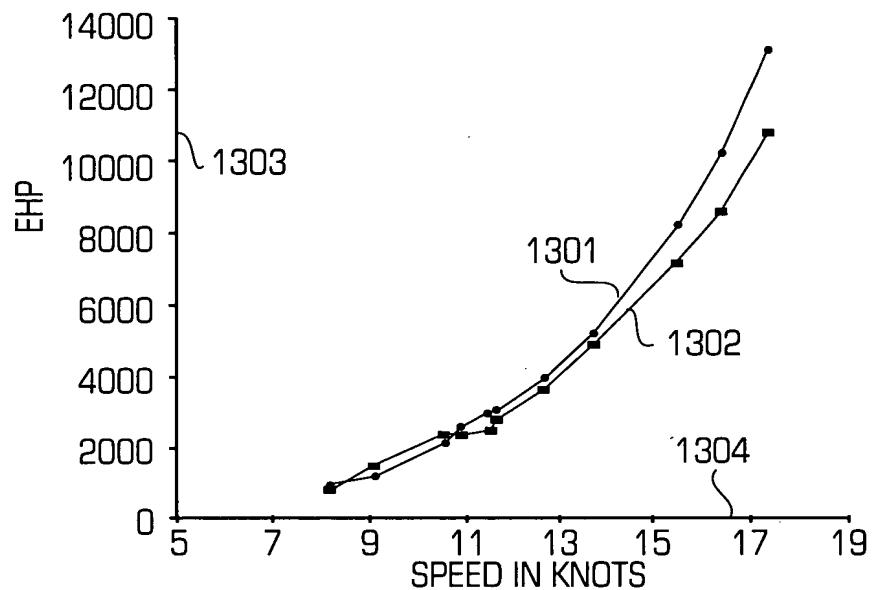


FIG. 13

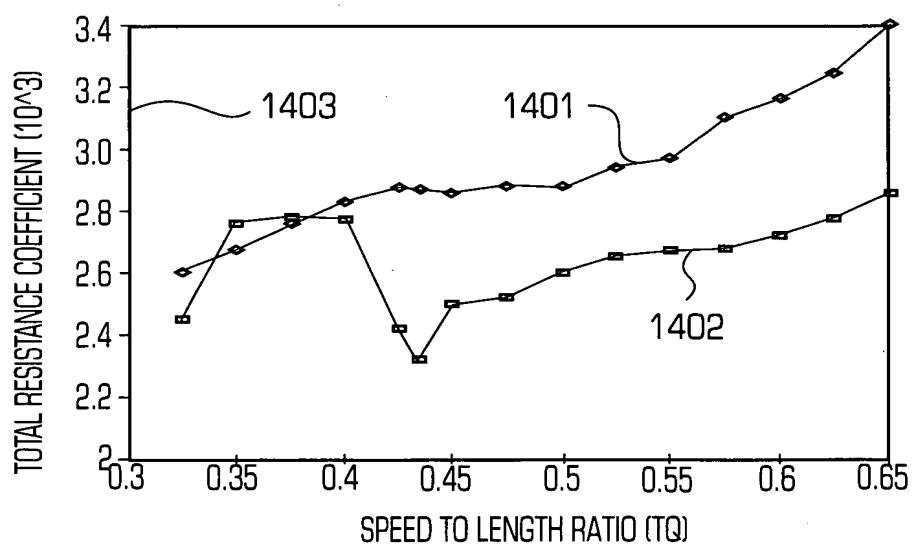


FIG. 14

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PERCENT REDUCTION IN TOTAL RESISTANCE COEFFICIENT (C_t) OF INVENTION
OVER CONVENTIONAL HULL FORM FOR 400 FT. VESSEL LENGTHS

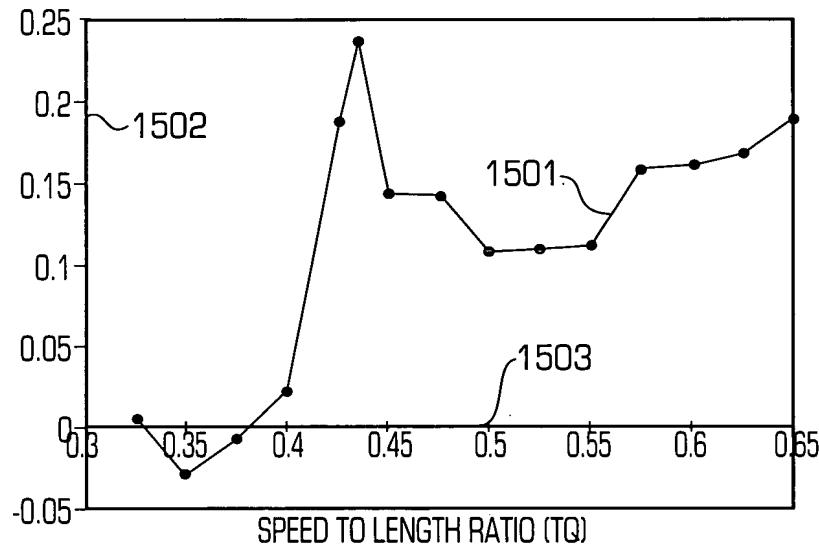


FIG. 15

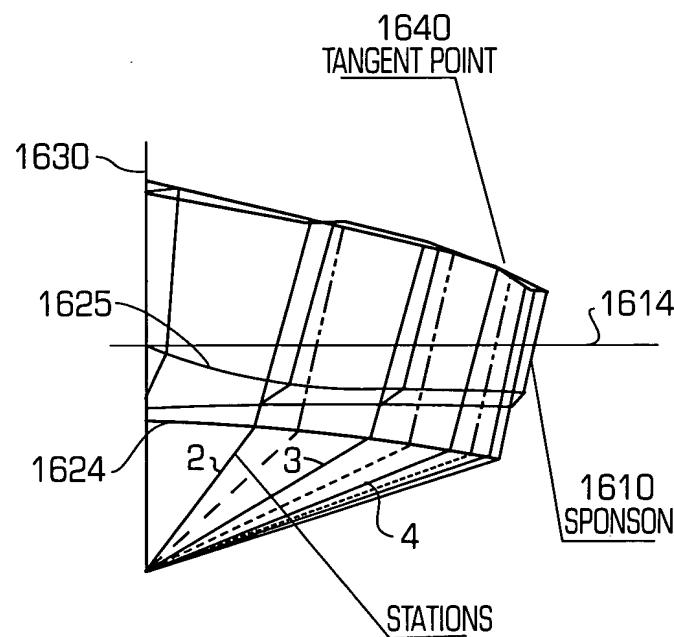


FIG. 16

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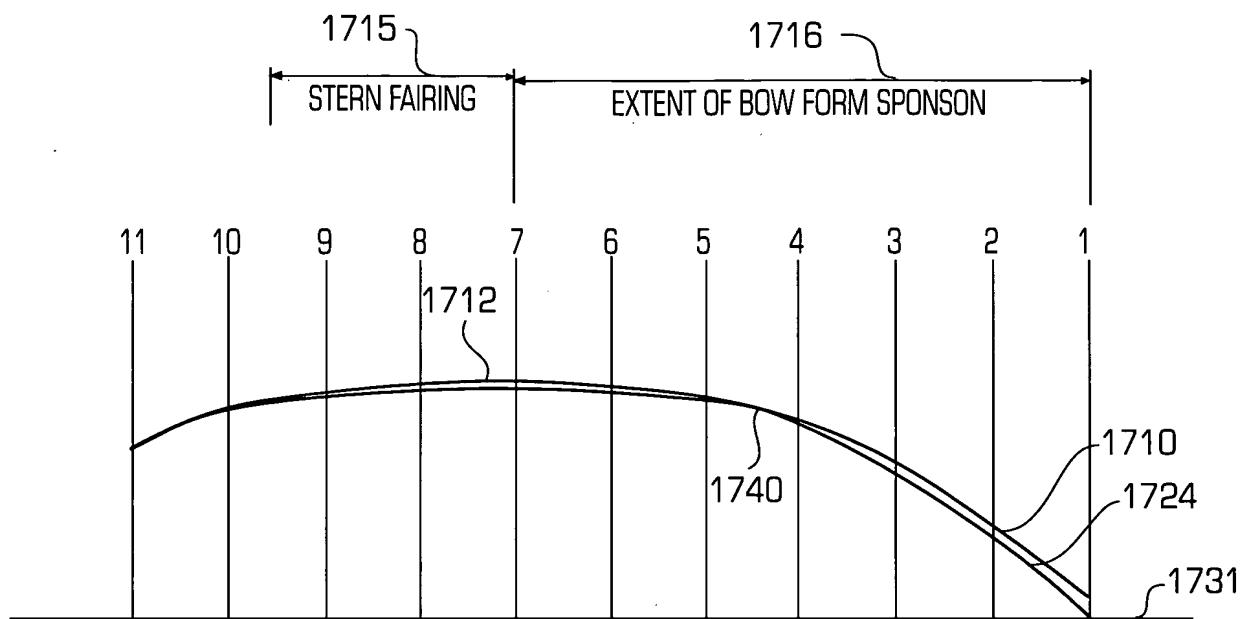


FIG. 17

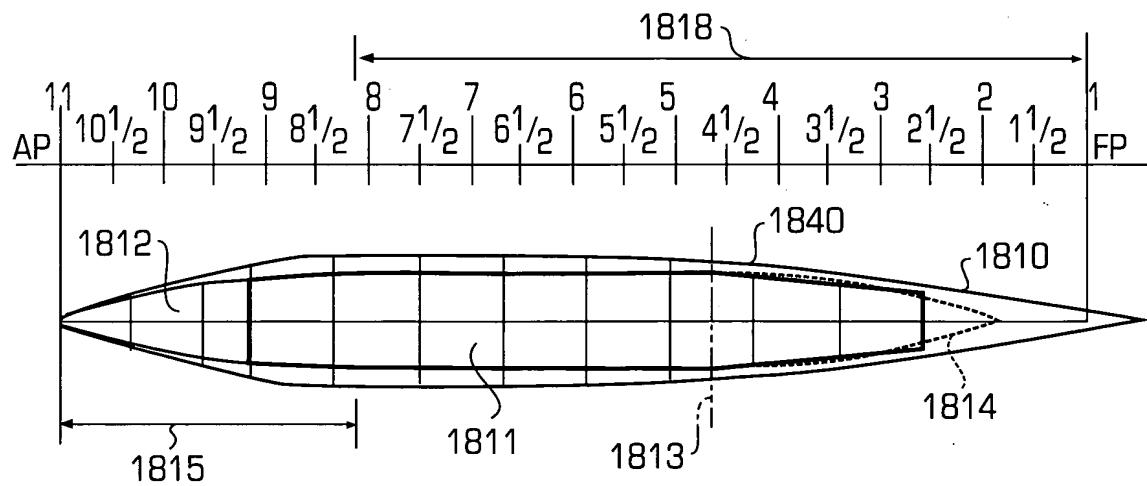


FIG. 18

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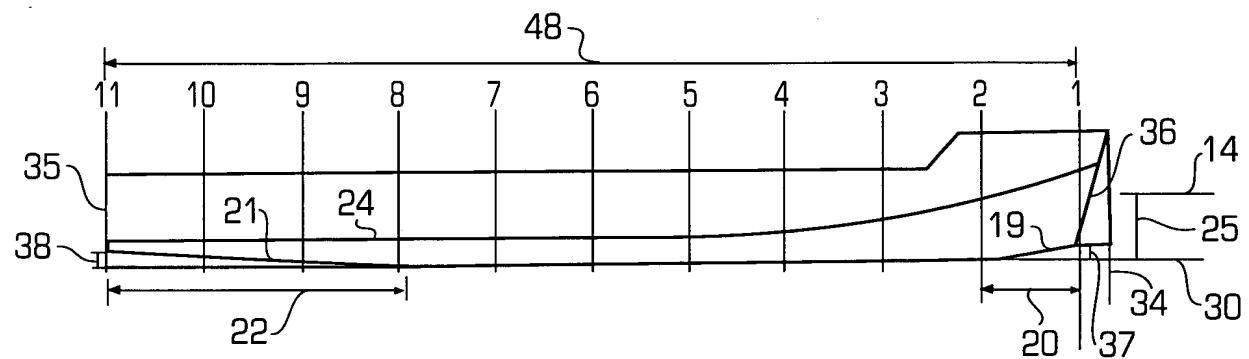


FIG. 19

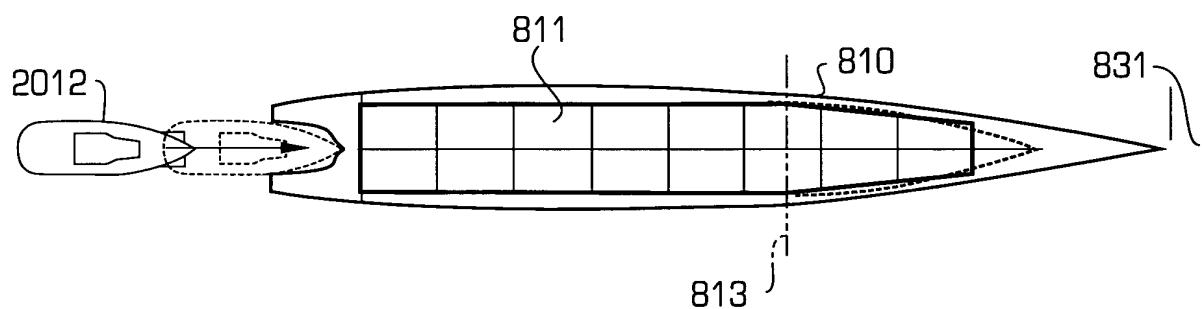


FIG. 20

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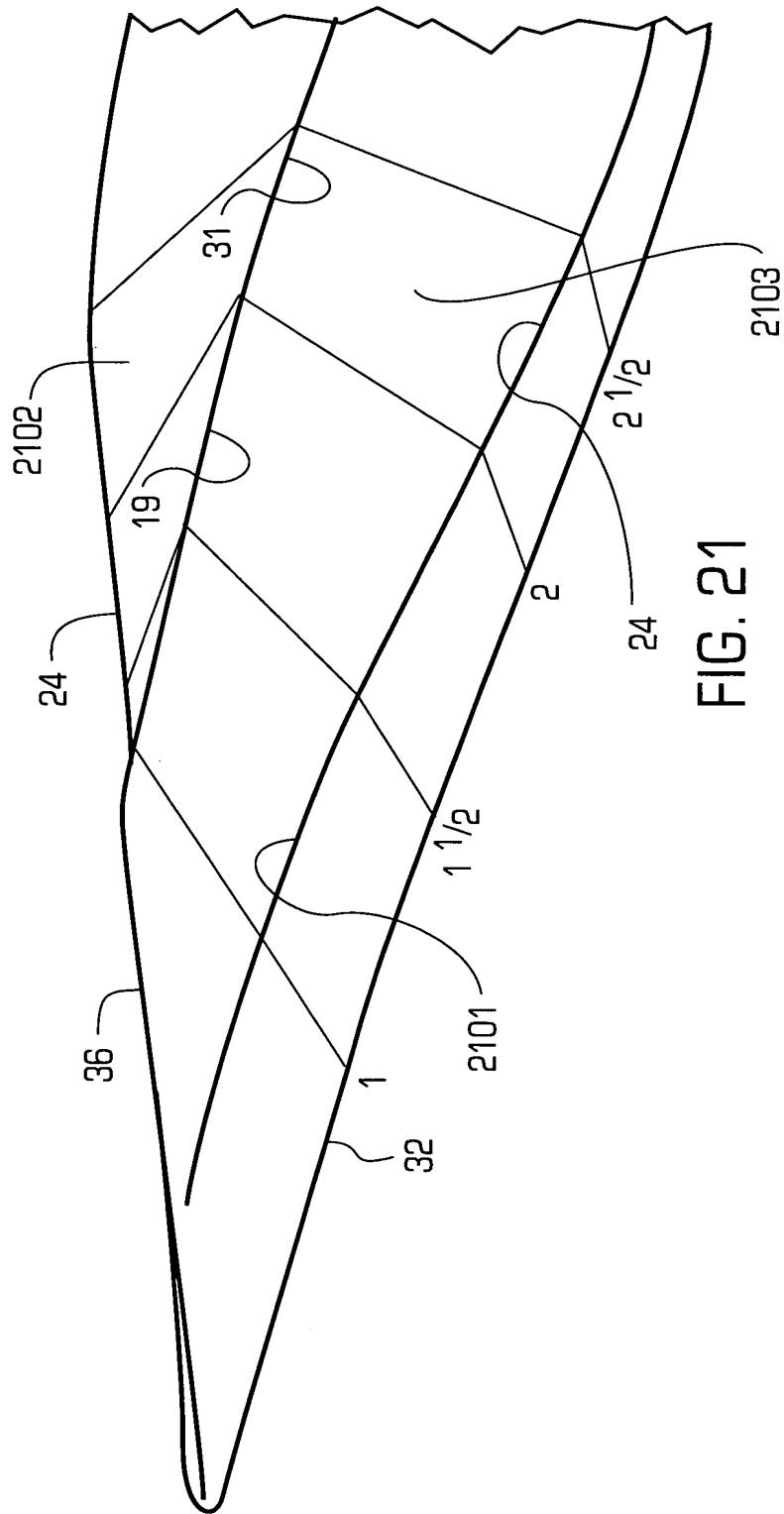


FIG. 21